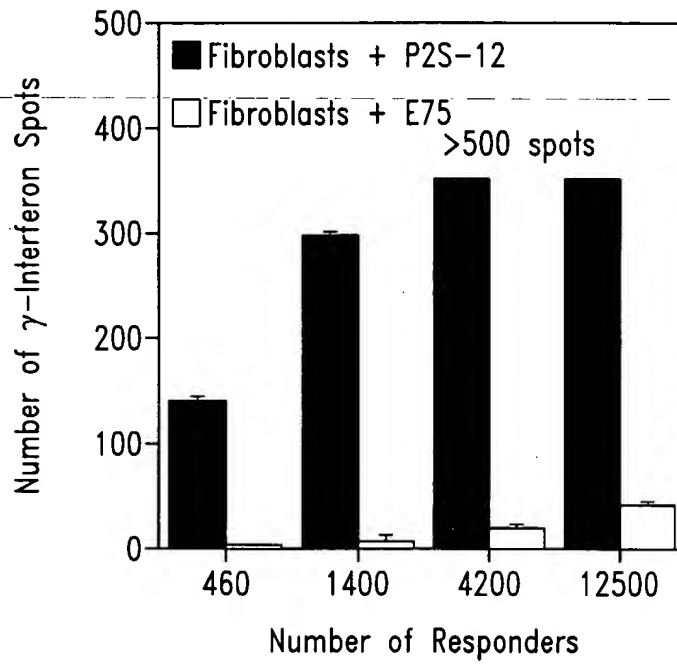
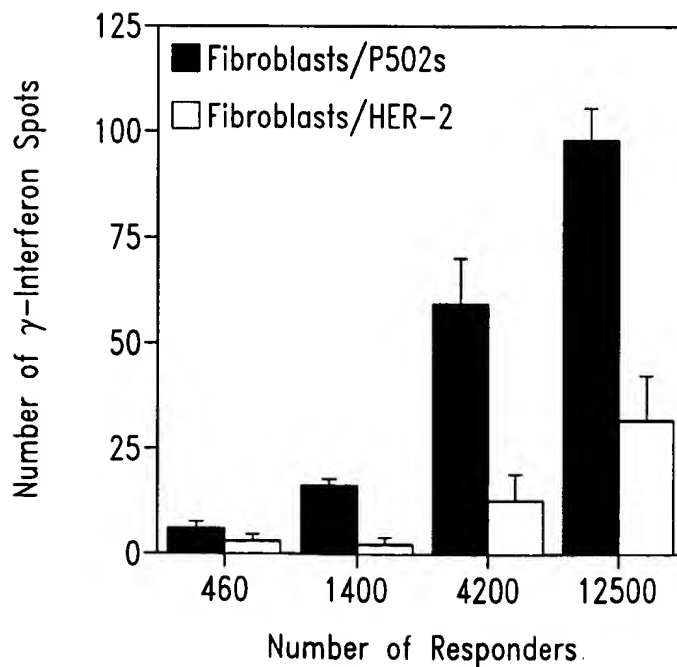


*Fig. 1*



*Fig. 2A*



*Fig. 2B*

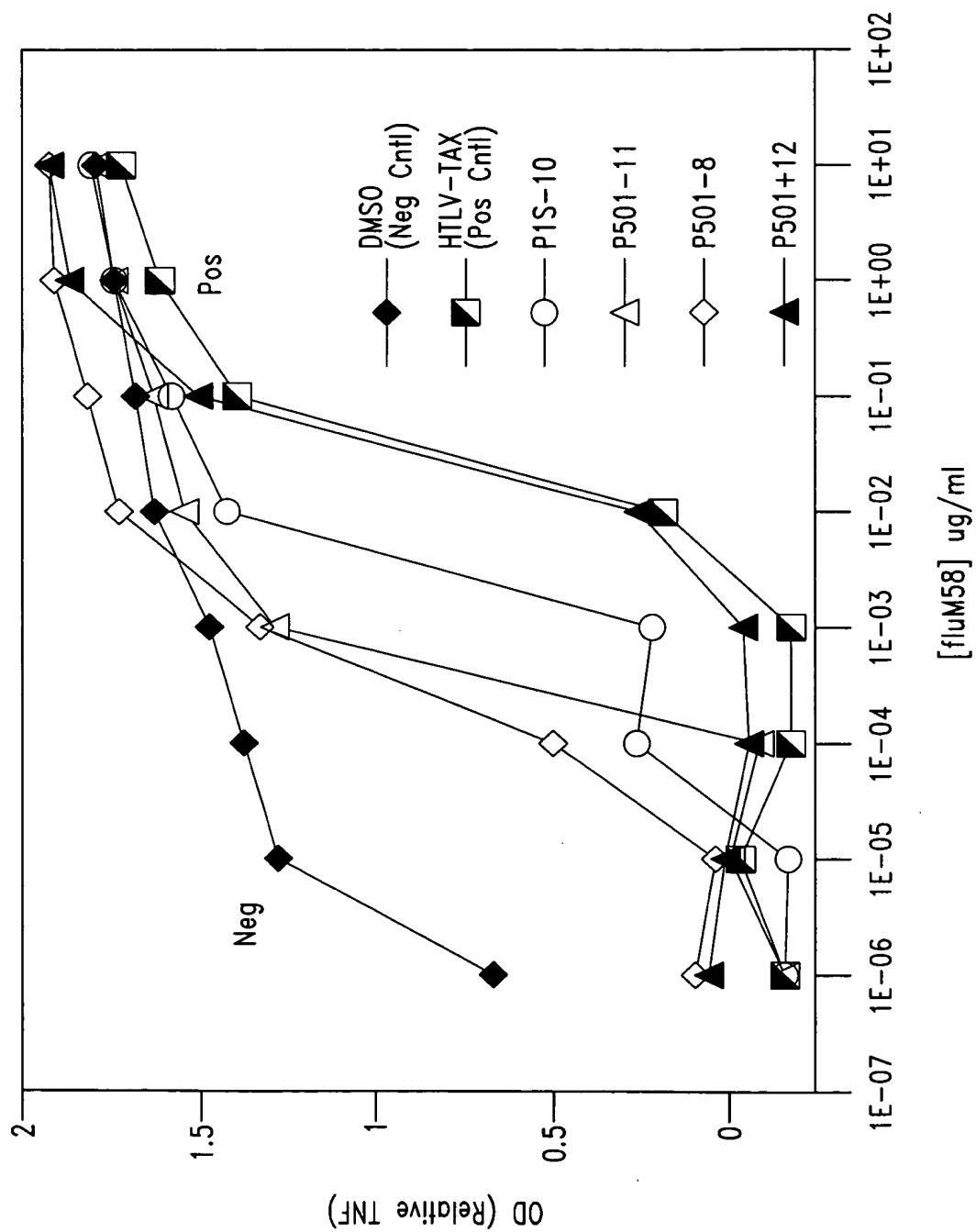
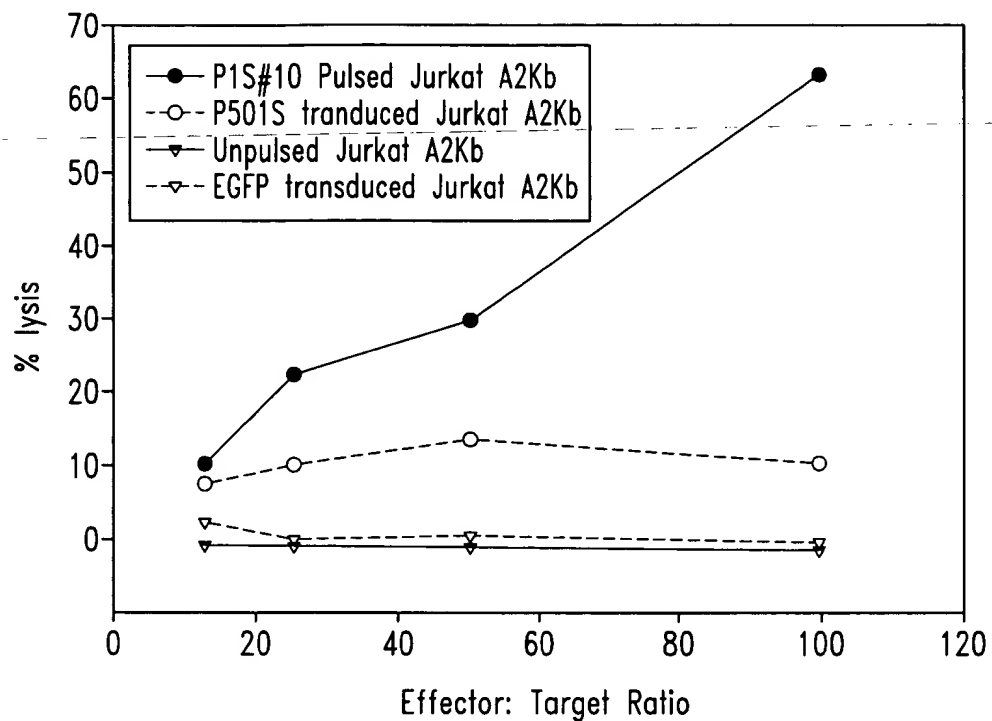
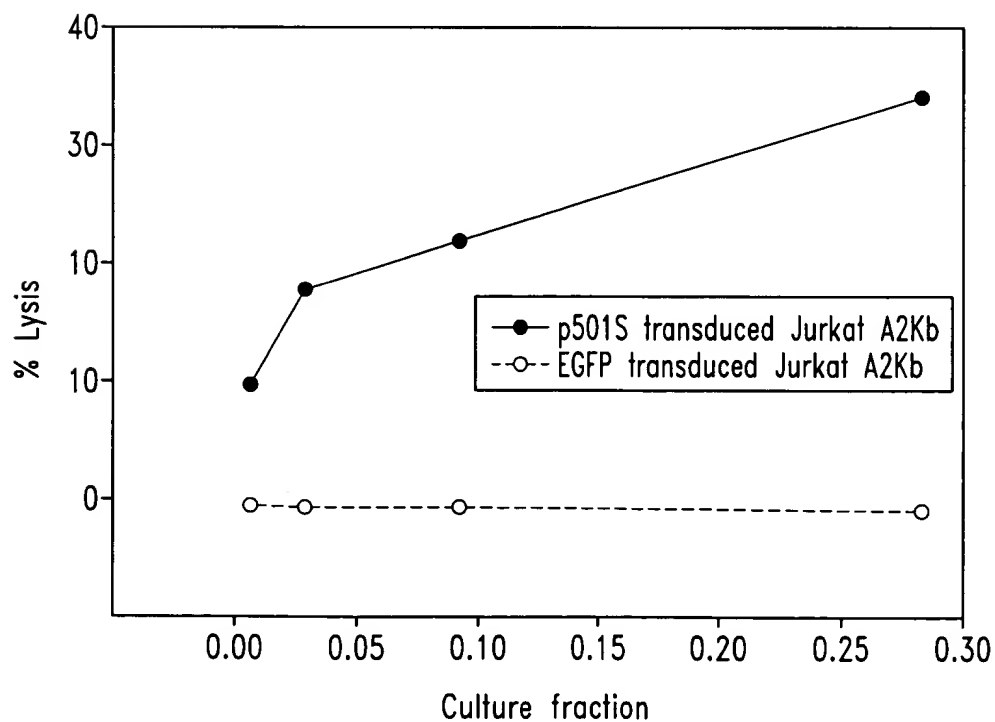


Fig. 3

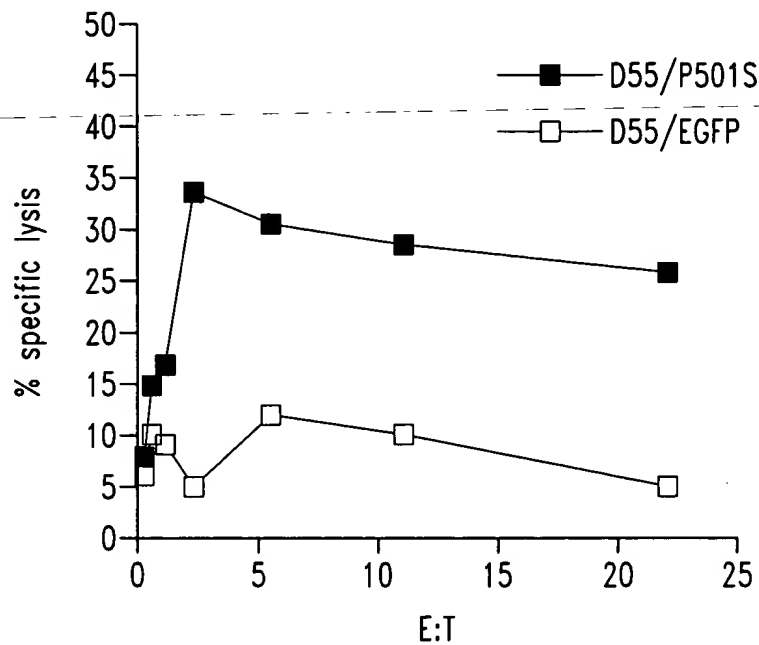


*Fig. 4*

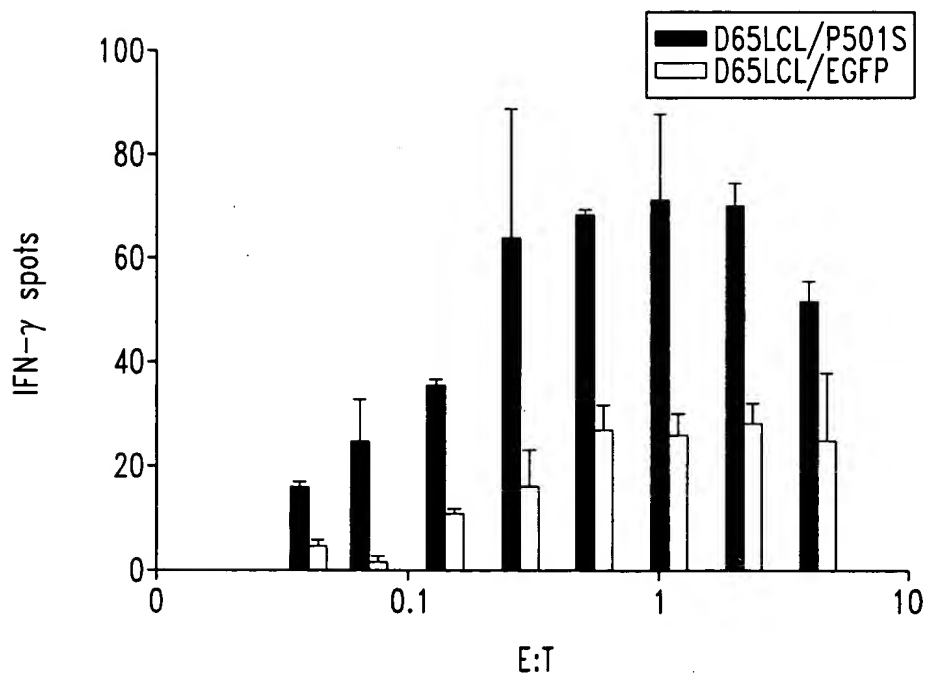


*Fig. 5*

Y

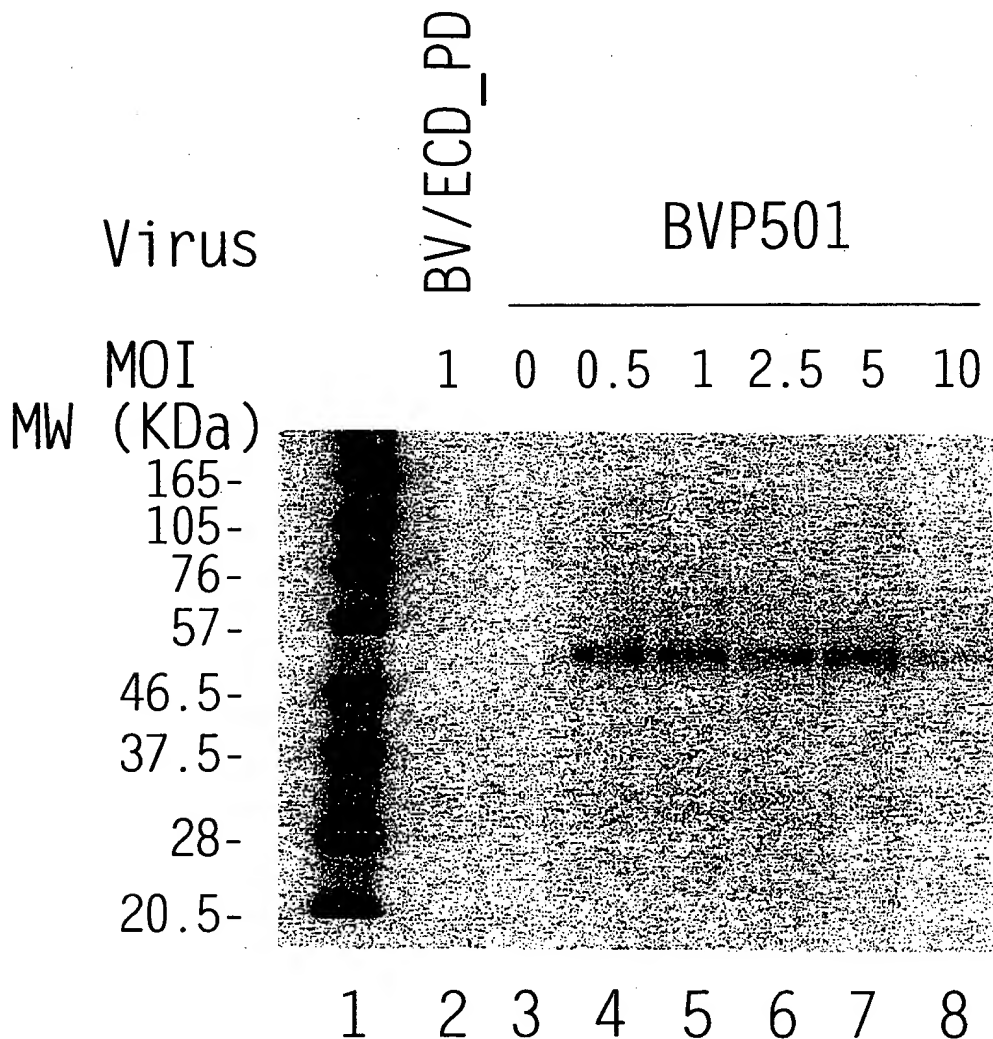


*Fig. 6A*



*Fig. 6B*

Expression of P501S  
by the Baculovirus Expression System



C 6 million high 5 cells in 6-well plate were infected with an unrelated control virus BV/ECD\_PD (lane2), without virus (lane3), or with recombinant baculovirus for P501 at different MOIs (lane 4-8). Cell lysates were run on SDS-PAGE under the reducing conditions and analyzed by Western blot with a monoclonal antibody against P501S (P501S-10E3-G4D3). Lane 1 is the biotinylated protein molecular weight marker (BioLabs).

*Fig. 7*



FIGURE 8. Mapping of the epitope recognized by 10E3-G4-D3

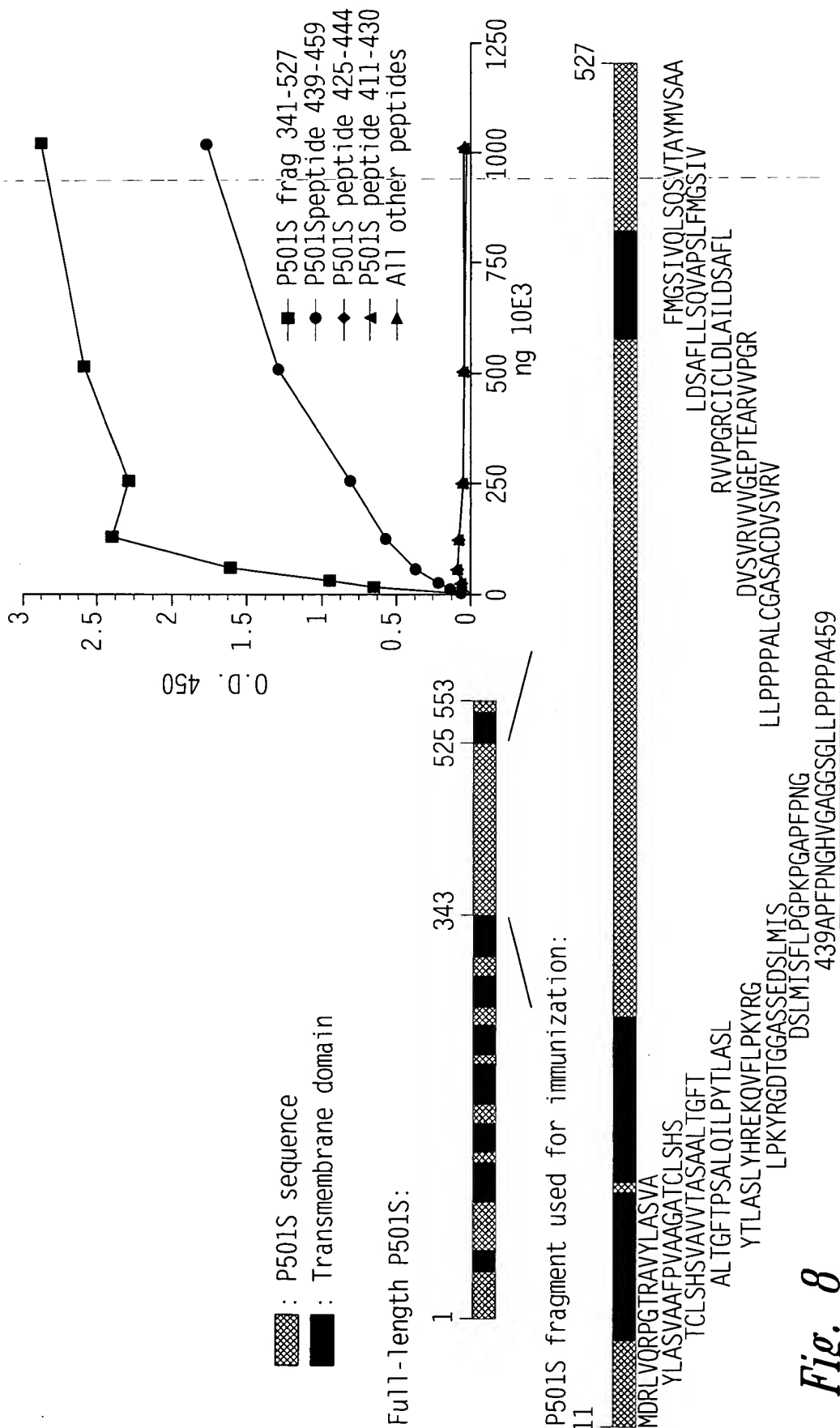


Fig. 8



Schematic of P501S with predicted  
transmembrane, cytoplasmic, and extracellular regions

MVQRLWVSRLLRHRK AQLLLVNLLTFGLEVCLAAGIT YVPPLLLEVGVEEKFM  
TMVLGIGPVLGLVCYPLLGSAS

DHWRGRYGRRRP FIWALSLGILLSLFLIPRAGWL **AGLLCPDPRPLE** LALLILGVGLLDFCGQVCFTPL

EALLSDLFRDPDHCRCQ AYSVYAFMISLGGCLGYLLPAI **DWDT**SALAPYLG**TQEE**

CLFGLLTLIFLTCAATLLV AEEAALGPTEPAEGLSAPSLSPHCCPCRARLAFRNLGALLPRL

HQLCCRMPTLRR LFVAELCSWMALMTFTLFYTDF VGEGLYQGVPR**AE**PGTEARRHYDEGVR

MGSLGLFLQCAISLVFSLVM DRLVQRFGTRAVYLAS VAAFPVAAGATCLSHSVAVVTA **SAA**

LTGFTFSALQILPYTLASLY HREKQVFLPKYRGDTGGASSEDSLMTSFLPGPKPGAPFPNGHVGAGGSGL

LPPPPALCGASACDVSVRVVVGEPT**EAR**VVPGRG ICLDLAILDSAFLLSQVAPSLF **MGSIVQLSQS**

VTAYMVSAAGLGLVAIYFAT QVVF**DKS**DLAKYSA

Underlined sequence: Predicted transmembrane domain; **Bold sequence**:  
Predicted extracellular domain; *Italic sequence*: Predicted intracellular  
domain. Sequence in bold/underlined: used generate polyclonal rabbit  
serum

Localization of domains predicted using HMMTOP (G.E. Tusnady and I. Simon  
(1998) Principles Governing Amino Acid Composition of Integral Membrane  
Proteins: Applications to topology Prediction. J. Mol Biol. 283, 489-506.

*Fig. 9*





Genomic Map of (5) Corixa Candidate Genes

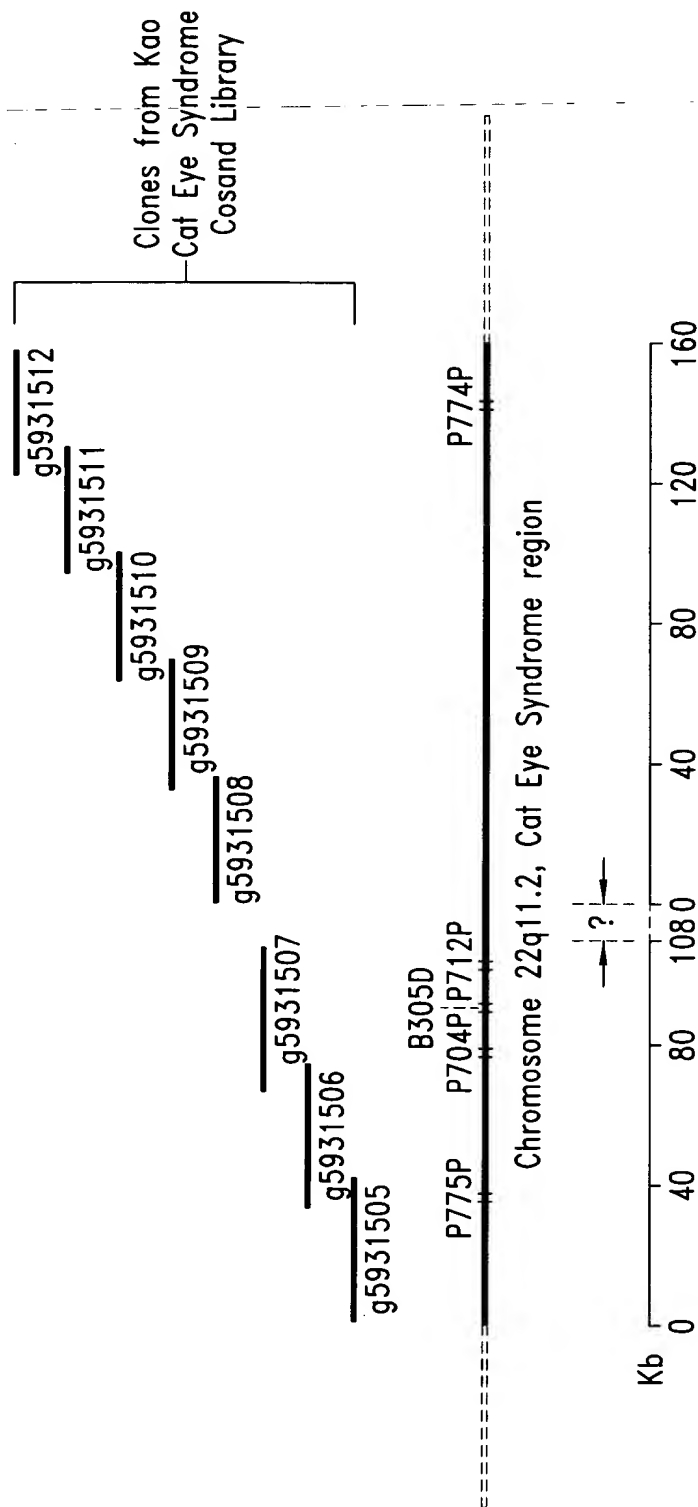


Fig. 10

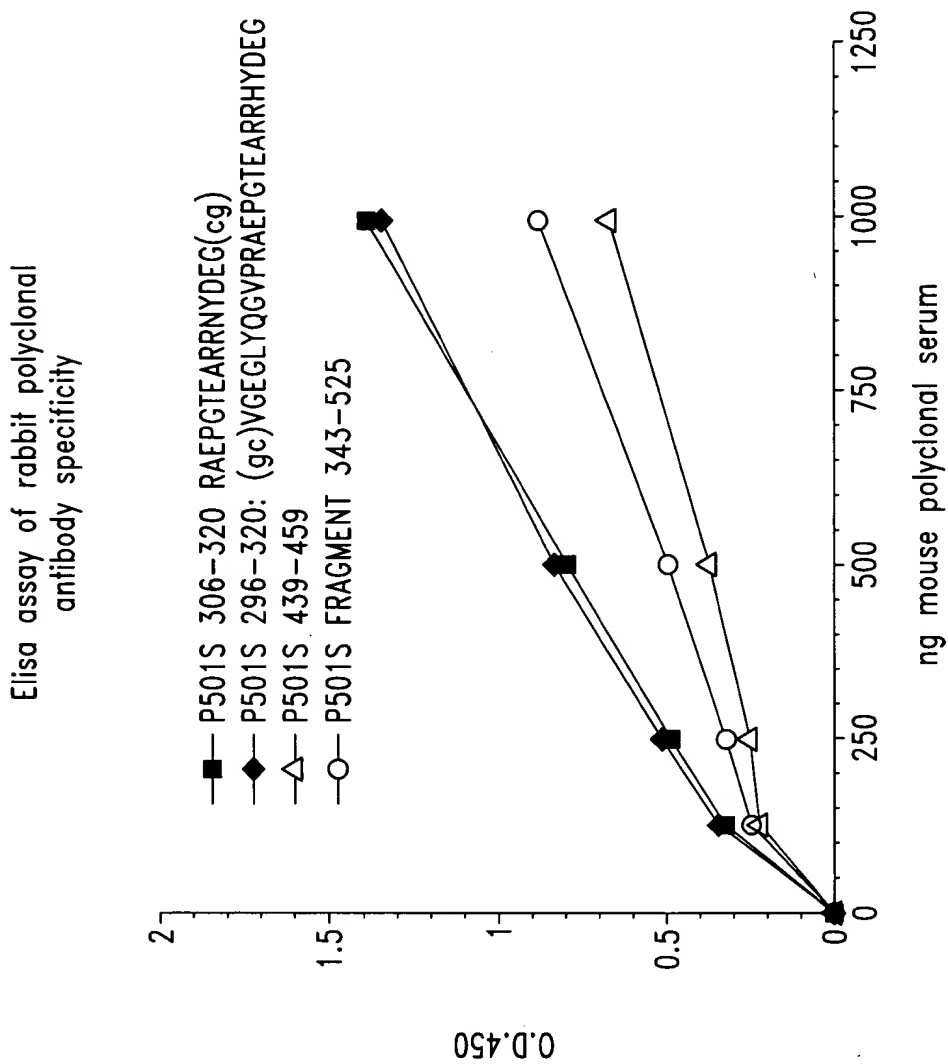


Fig. 11



Title: COMPOSITIONS AND METHODS FOR THERAPY AND DIAGNOSIS OF PROSTATE CANCER

Express Mail No. EV170134038US

Inventor: Jiangchun Xu et al. Serial No. 09/593,793 Docket No. 210121.427C15

GTCACCTAGG AAAAGGTGTC CTTTCGGGCA GCCGGGCTCA GCATGAGGAA CAGAAGGAAT 60  
GACACTCTGG ACAGCACCCG GACCCTGTAC TCCAGCGCGT CTCGGAGCAC AGACTTGTCT 120  
TACAGTGAAA GCGACTTGGT GAATTTTATT CAAGCAAATT TTAAGAAACG AGAATGTGTC 180  
TTCTTTACCA AAGATTCCAA GGCCACGGAG AATGTGTGCA AGTGTGGCTA TGCCCAGAGC 240  
CAGCACATGG AAGGCACCCA GATCAACCAA AGTGAGAAAT GGAACTACAA GAAACACACC 300  
AAGGAATTC CTACCGACGC CTTTGGGGAT ATTCAAGTTG AGACACTGGG GAAGAAAGGG 360  
AAGTATATAC GTCTGTCTCG CGACACGGAC GCGGAAATCC TTTACGAGCT GCTGACCCAG 420  
CACTGGCACC TGAACACACC CAACCTGGTC ATTTCTGTGA CCGGGGGCGC CAAGAACTTC 480  
GCCCTGAAGC CGCGCATGCG CAAGATCTTC AGCCGGCTCA TCTACATCGC GCAGTCCAAA 540  
GGTGCTTGGA TTCTCACGGG AGGCACCCAT TATGGCCTGA CGAAGTACAT CGGGGAGGTG 600  
GTGAGAGATA ACACCATCAG CAGGAGTTCA GAGGAGAATA TTGTGGCCAT TGGCATAGCA 660  
GCTTGGGGCA TGGTCTCCAA CCGGGACACC CTCATCAGGA ATTGCGATGC TGAGGGCTAT 720  
TTTTTAGCCC AGTACCTTAT GGATGACTTC ACAAGGGATC CACTGTATAT CCTGGACAAC 780  
AACCACACAC ATTTGCTGCT CGTGGACAAT GGCTGTCATG GACATCCCAC TGTCGAAGCA 840  
AAGCTCCGGA ATCAGCTAGA GAAGCATATC TCTGAGCGCA CTATTCAAGA TTCCAATAT 900  
GGTGGCAAGA TCCCCATTGT GTGTTTTGCC CAAGGAGGTG GAAAAGAGAC TTTGAAAGCC 960  
ATCAATACCT CCATCAAAAA TAAATTCCT TGTGTGGTGG TGGAAGGCTC GGGCCGGATC 1020  
GCTGATGTGA TCGCTAGCCT GGTGGAGGTG GAGGATGCCC CGACATCTTC TGCCGTCAAG 1080  
GAGAAGCTGG TGCCTTTTTT ACCCCGCACG GTGTCCCGGC TGTCTGAGGA GGAGACTGAG 1140  
AGTTGGATCA AATGGCTCAA AGAAATTCTC GAATGTTCTC ACCTATTAAC AGTTATTAAA 1200  
ATGGAAGAAG CTGGGGATGA AATTGTGAGC AATGCCATCT CCTACGCTCT ATACAAAGCC 1260  
TTCAGACCA GTGAGCAAGA CAAGGATAAC TGGAATGGGC AGCTGAAGCT TCTGCTGGAG 1320  
TGGAACCAGC TGGACTTAGC CAATGATGAG ATTTTCACCA ATGACCGCCG ATGGGAGTCT 1380  
GCTGACCTTC AAGAAGTCAT GTTTACGGCT CTCATAAAGG ACAGACCCAA GTTTGTCCGC 1440  
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CTCTTCTCCA ACCACTTCAG CACGCTTGTG TACCGGAATC TGCAGATCGC CAAGAATTCC 1560  
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CGGAAGGAAG ACAGAAATGG CCGGGACGAG ATGGACATAG AACTCCACGA CGTGTCTCCT 1680  
ATTACTCGGC ACCCCCTGCA AGCTCTCTTC ATCTGGGCCA TTCTTCAGAA TAAGAAGGAA 1740  
CTCTCCAAAG TCATTTGGGA GCAGACCAGG GGCTGCACTC TGGCAGCCCT GGGAGCCAGC 1800  
AAGCTTCTGA AGACTCTGGC CAAAGTGAAG AACGACATCA ATGCTGCTGG GGAGTCCGAG 1860  
GAGCTGGCTA ATGAGTACGA GACCCGGGCT GTTGAGCTGT TCACTGAGTG TTACAGCAGC 1920  
GATGAAGACT TGGCAGAACA GCTGCTGGTC TATTCCTGTG AAGCTTGGGG TGGAAGCAAC 1980  
TGTCTGGAGC TGGCGGTGGA GGCCACAGAC CAGCATTTCA CCGCCCAGCC TGGGGTCCAG 2040  
AATTTTCTTT CTAAGCAATG GTATGGAGAG ATTTCCCAG ACACCAAGAA CTGGAAGATT 2100

Fig. 12A (1)



|            |            |             |             |            |            |      |
|------------|------------|-------------|-------------|------------|------------|------|
| ATCCTGTGTC | TGTTTATTAT | ACCCTTGGTG  | GGCTGTGGCT  | TTGTATCATT | TAGGAAGAAA | 2160 |
| CCTGTGCACA | AGCACAAGAA | GCTGCTTTGG  | TACTATGTGG  | CGTTCCTCAC | CTCCCCCTTC | 2220 |
| GTGGTCTTCT | CCTGGAATGT | GGTCTTCTAC  | ATCGCCTTCC  | TCCTGCTGTT | TGCCTACGTG | 2280 |
| CTGCTCATGG | ATTTCCATTC | GGTGCCACAC  | CCCCCGAGC   | TGGTCCTGTA | CTCGCTGGTC | 2340 |
| TTTGTCTCT  | TCTGTGATGA | AGTGAGACAG  | TGGTACGTAA  | ATGGGGTGAA | TTATTTTACT | 2400 |
| GACCTGTGGA | ATGTGATGGA | CACGCTGGGG  | CTTTTTTACT  | TCATAGCAGG | AATTGTATTT | 2460 |
| CGGCTCCACT | CTTCTAATAA | AAGCTCTTTG  | TATTCTGGAC  | GAGTCATTTT | CTGTCTGGAC | 2520 |
| TACATTATTT | TCACTCTAAG | ATTGATCCAC  | ATTTTTTACTG | TAAGCAGAAA | CTTAGGACCC | 2580 |
| AAGATTATAA | TGCTGCAGAG | GATGCTGATC  | GATGTGTTCT  | TCTTCCTGTT | CCTCTTTGCG | 2640 |
| GTGTGGATGG | TGGCCTTTGG | CGTGGCCAGG  | CAAGGGATCC  | TAGGCAGAA  | TGAGCAGCGC | 2700 |
| TGGAGGTGGA | TATTCGGTTC | GGTCATCTAC  | GAGCCCTACC  | TGGCCATGTT | CGGCCAGGTG | 2760 |
| CCCAGTGACG | TGGATGGTAC | CACGTATGAC  | TTTGCCCACT  | GCACCTTCAC | TGGGAATGAG | 2820 |
| TCCAAGCCAC | TGTGTGTGGA | GCTGGATGAG  | CACAACCTGC  | CCCGGTTCCC | CGAGTGGATC | 2880 |
| ACCATCCCCC | TGGTGTGCAT | CTACATGTTA  | TCCACCAACA  | TCCTGCTGGT | CAACCTGCTG | 2940 |
| GTGCGCATGT | TTGGCTACAC | GGTGGGCACC  | GTCCAGGAGA  | ACAATGACCA | GGTCTGGAAG | 3000 |
| TTCCAGAGGT | ACTTCCTGGT | GCAGGAGTAC  | TGCAGCCGCC  | TCAATATCCC | CTTCCCCTTC | 3060 |
| ATCGTCTTCG | CTTACTTCTA | CATGGTGGTG  | AAGAAGTGCT  | TCAAGTGTG  | CTGCAAGGAG | 3120 |
| AAAAACATGG | AGTCTTCTGT | CTGCTGTTTC  | AAAAATGAAG  | ACAATGAGAC | TCTGGCATGG | 3180 |
| GAGGGTGTCA | TGAAGGAAAA | CTACCTTGTC  | AAGATCAACA  | CAAAAGCCAA | CGACACCTCA | 3240 |
| GAGGAAATGA | GGCATCGATT | TAGACAACCTG | GATACAAAGC  | TTAATGATCT | CAAGGGTCTT | 3300 |
| CTGAAAGAGA | TTGCTAATAA | AATCAAATAA  | AACTGTATGA  | AACTCTAATG | GAGAAAAATC | 3360 |
| TAATTATAGC | AAGATCATAT | TAAGGAATGC  | TGATGAACAA  | TTTTGCTATC | GACTACTAAA | 3420 |
| TGAGAGATTT | TCAGACCCCT | GGGTACATGG  | TGGATGATTT  | TAAATCACCC | TAGTGTGCTG | 3480 |
| AGACCTTGAG | AATAAAGTGT | GTGATTGGTT  | TCATACTTGA  | AGACGGATAT | AAAGGAAGAA | 3540 |
| TATTTCCTTT | ATGTGTTTCT | CCAGAATGGT  | GCCTGTTTCT  | CTCTGTGTCT | CAATGCCTGG | 3600 |
| GACTGGAGGT | TGATAGTTTA | AGTGTGTTCT  | TACCGCCTCC  | TTTTTCCTTT | AATCTTATTT | 3660 |
| TTGATGAACA | CATATATAGG | AGAACATCTA  | TCCTATGAAT  | AAGAACCTGG | TCATGCTTTA | 3720 |
| CTCCTGTATT | GTTATTTTGT | TCATTTCCAA  | TTGATTCTCT  | ACTTTTCCCT | TTTTTGATTT | 3780 |
| ATGTGACTAA | TTAGTTGGCA | TATTGTAAAA  | AGTCTCTCAA  | ATTAGGCCAG | ATTCTAAAAC | 3840 |
| ATGCTGCAGC | AAGAGGACCC | CGCTCTCTTC  | AGGAAAAGTG  | TTTTCATTTT | TCAGGATGCT | 3900 |
| TCTTACCTGT | CAGAGGAGGT | GACAAGGCAG  | TCTCTTGCTC  | TCTTGGACTC | ACCAGGCTCC | 3960 |
| TATTGAAGGA | ACCACCCCCA | TTCTTAAATA  | TGTGAAAAGT  | CGCCCAAAT  | GCAACCTTGA | 4020 |
| AAGGCACTAC | TGACTTTGTT | CTTATTGGAT  | ACTCCTCTTA  | TTTATTATTT | TTCCATTAAA | 4080 |
| AATAATAGCT | GGCTATTATA | GAAAAATTTAG | ACCATACAGA  | GATGTAGAAA | GAACATAAAT | 4140 |
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| TTTTTTTCTA | TGTATGTCTC | AATTCTCTTT  | CAAAATTTTA  | CAGAATGTTA | TCATACTACA | 4260 |
| TATATACTTT | TTATGTAAGC | TTTTTCACTT  | AGTATTTTAT  | CAAATATGTT | TTTATTATAT | 4320 |
| TCATAGCCTT | CTTAAACATT | ATATCAATAA  | TTGCATAATA  | GGCAACCTCT | AGCGATTACC | 4380 |
| ATAATTTTGC | TCATTGAAGG | CTATCTCCAG  | TTGATCATTG  | GGATGAGCAT | CTTTGTGCAT | 4440 |
| GAATCCTATT | GCTGTATTTG | GGAAAAATTTT | CCAAGGTTAG  | ATTCCAATAA | ATATCTATTT | 4500 |
| ATTATTAAAT | ATTAAAATAT | CGATTTATTA  | TTAAAACCAT  | TTATAAGGCT |            |      |

Fig. 12A (2)



```

TTTTCATAAA 4560
TGTATAGCAA ATAGGAATTA TTAACCTGAG CATAAGATAT GAGATACATG AACCTGAACT 4620
ATTAATAATAA AATATTATAT TTAACCCTAG TTAAAGAAGA AGTCAATATG CTTATTTAAA 4680
TATTATGGAT GGTGGGCAGA TCACTTGAGG TCAGGAGTTC GAGACCAGCC TGGCCAACAT 4740
-----
GGCAAAACCA CATCTCTACT AAAAATAAAA AAATTAGCTG GGTGTGGTGG TGCACCTCCTG 4800
TAATCCCAGC TACTCAGAAG GCTGAGGTAC AAGAATTGCT GGAACCTGGG AGGCGGAGGT 4860
TGCAGTGAAC CAAGATTGCA CCACTGCACT CCAGCCGGGG TGACAGAGTG AGACTCCGAC 4920
TGAAAATAAA TAAATAAATA AATAAATAAA TAAATAAATA AATATTATGG ATGGTGAAGG 4980
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AAGTGGTGGT ATTTGAGCAG GATGTGCACA AGGCAATTGA AATGCCATA ATTAGTTTCT 5100
CAGCTTTGAA TACACTATAA ACTCAGTGGC TGAAGGAGGA AATTTTAGAA GGAAGCTACT 5160
AAAAGATCTA ATTTGAAAAA CTACAAAAGC ATTAATAAAA AAAGTTTATT TTCCTTTTGT 5220
CTGGGCAGTA GTGAAAATAA CTA CTCACAA CATTCACTAT GTTTGCAAGG AATTAACACA 5280
AATAAAAGAT GCCTTTTAC TTAAACGCCA AGACAGAAAA CTTGCCCAAT ACTGAGAAGC 5340
AACTTGCATT AGAGAGGGAA CTGTAAATG TTTTCAACCC AGTTCATCTG GTGGATGTTT 5400
TTGCAGGTTA CTCTGAGAAT TTTGCTTATG AAAAATCATT ATTTTATAGT TAGTTCACAA 5460
TAATGTATTG AACATACTTC TAATCAAAGG TGCTATGTCC TTGTGTATGG TACTAAATGT 5520
GTCCTGTGTA CTTTTCACAA ACTGAGAATC CTGCGGCTTG GTTTAATGAG TGTGTTTCATG 5580
AAATAAATAA TGGAGGAATT GTCAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA 5640
AAAAAAAAA AAAAAAAAAA AAAAAAAA 5668

```

*Fig. 12A (3)*



MDNRNDTLDSTRTRYSSASRSTDLSYSESDLVNF IQANFKKRECVFFTKDSKATENVCKCGYAQSQHME  
GTQINQSEKWNYYKKHTKEFPTDAFGDIQFETLGKKGKYIRLSCDTDAEILYELLTQHWHLKTPNLVISVT  
GGAKNFALKPRMRKIFSRLIYIAQSKGAWILTGGTHYGLTKYIGEVRDNTISRSEENIVAIGIAAWGM  
VSNRDTLIRNCDAEGYFLAQYLMDDFTRDPLYILDNNHTHLLLVDNGCHGHPTVEAKLRNQLKHHISERT  
IQDSNYGGKIPVCFQAQGGGKETLKAINTSIKNKIPCVVVEGSGRIADVIASLVEVEDAPTSSAVKEKLV  
RFLPRTVSRLSEEETESWIKWLKEILECSHLLTVIKMEEAGDEIVSNAISYALYKAFSTSEQDKDNWNGQ  
LKLLLEWNQLDLANDEIFTNDRRWESADLQEVMTALIKDRPKFVRLFLENGLNLRKFLTHDVLTELFNS  
HFSTLVYRNLQIAKNSYNDALLTFVWKL VANFRRGFRKEDRNGRDEMDELHDVSPITRHPLQALFIWAI  
LQNKKELSKVIWEQTRGCTLAALGASKLLKTLAKVKNDINAAGESEELANEYETRAVELFTECYSSDEDL  
AEQLLVYSCEAWGGSNCLELAVEATDQHFTAQPGVQNFLSKQWYGEISRDTKNWKIILCLFIIPLVGCGF  
VSFRKKPVDKHKLLWYYYVAFFTSPFVVFVSWNVVFI AFLLLFAYVLLMDFHSVPHPELVLYSLVFVLF  
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SRNLGPKIIMLQRMIDVFFFLFLFAVWMVAFGVARQGILRQNEQRWRWIFRSVIYEPYLA MFGQVPSDV  
DGTTYDFAHCTFTGNESKPLCVELDEHNLPRFPEWITIPLVCIYMLSTNILLVNLLVAMFGYTVGTVQEN  
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KENYLKINTKANDTSEEMRHRFRQLDTKLN DLKGLLKEIANKIK

*Fig. 12B*